

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Viginia 22313-1450 www.uspto.gov

APPLICATION NO	. FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/736,619	7736,619 12/13/2000		Igor Markidan	4389-9	8901
22442	7590	06/18/2003			."
SHERIDAN ROSS PC 1560 BROADWAY SUITE 1200			EXAMINER		
				HARLE, JENNIFER I	
DENVER,	ER, CO 80202			ART UNIT	PAPER NUMBER
				3627	
•				DATE MAILED: 06/18/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		\					
•	Application No.	Applicant(s)					
	09/736,619	MARKIDAN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Jennifer I. Harle	3627					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. I the mailing date of this communication. ED (35 U.S.C.§ 133).					
1) Responsive to communication(s) filed on 13 L	<u>December 2000</u> .						
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.						
3) Since this application is in condition for allowed closed in accordance with the practice under	ance except for formal matters, p Ex parte Quayle, 1935 C.D. 11,	rosecution as to the merits is 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-9 is/are pending in the application.	un from consideration						
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.						
<u> </u>	Claim(s) is/are allowed.						
7) Claim(s) is/are objected to.	Claim(s) 1-9 is/are rejected.						
8) Claim(s) are subject to restriction and/o	r election requirement						
Application Papers	, 0,00,000						
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accept	oted or b) objected to by the Exa	aminer.					
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in re	ply to this Office action.						
12) ☐ The oath or declaration is objected to by the Ex	aminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
_ , , , ,							
 3. Copies of the certified copies of the prio application from the International Bu * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).						
14)⊠ Acknowledgment is made of a claim for domesti	ic priority under 35 U.S.C. § 119	(e) (to a provisional application).					
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 	5) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)					
S. Potent and Trademark Office		****					

Application/Control Number: 09/736,619

Art Unit: 3627

DETAILED ACTION

Claims 1-9 are pending. Claims 1-9 are rejected.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-3 and 5 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The basis of this rejection is set forth in a two-prong test of:

- (1) whether the invention is within the technological arts; and
- (2) whether the invention produces a useful, concrete, and tangible result.

For a claimed invention to be statutory, the claimed invention must be within the technological arts. Mere ideas in the abstract (i.e., abstract idea, law of nature, natural phenomena) that do not apply, involve, use, or advance the technological arts fail to promote the "progress of science and the useful arts" (i.e., the physical sciences as opposed to social sciences, for example) and therefore are found to be non-statutory subject matter. For a process claim, the recited process must somehow apply, involve, use, or advance the technological arts.

In the present case, claims 1-3 and 5 only recites an abstract idea. The recited steps of merely tracking samples of a clinical study by defining clinical study protocols comprising a plurality of procedures including accessioning samples by recording them in a database, creating worklists by assigning scientists to perform procedures, creating checklists, performing steps on the checklist and recording completion of steps on the checklist in the database does not apply, involve, use, or advance the technological arts since all of the recited steps can be performed in

Art Unit: 3627

the mind of the user or by use of a pencil and paper. The samples could be the people themselves and the procedures could involve psychiatric, physical or speech evaluation. A database can be a paper file, notecards, etc. These steps only constitute an idea of how to track samples of a clinical study.

Additionally, for a claimed invention to be statutory, the claimed invention must produce a useful, concrete, and tangible result. In the present case, the tracks samples of a clinical study by defining the protocol, accessioning samples creating worklists and checklists, performing steps on the checklists and recording the results of the steps performed (i.e., repeatable useful and tangible).

Although the recited process produces a useful, concrete, and tangible result, since the claimed invention, as a whole, is not within the technological arts as explained above, claims 1-3 and 5 is deemed to be directed to non-statutory subject matter.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5-6, and 8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Oku, et al. (5,675,745).

Oku teaches all the claim elements as set forth by Applicants in claims 1-3, 5-6, and 8. See entire patent but specifically Figs. 1, 3, 6, 8, 10, 12-13, 16-19, 21-26, 30-31, 33-35, 41-42, Application/Control Number: 09/736,619

Art Unit: 3627

44-52, 54, 58-60; cols. 1-2, lines 10-14, cols. 5-6, lines 21-25, col. 9, lines 20-24, col. 10, lines 8-42, cols. 12-13, lines 49-41, col. 20-23.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4, 7, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oku, et al. (5,675,745) in view of William E. Evans and Mary V. Relling, Pharmacogenomics: Translating Functional Genomics into Rational Therapeutics, Science, Vol. 286, Issue 5439, October 15, 1999, pp. 487-491.

Oku teaches as set forth above. However, Oku does not teach that one of the procedures determines the genotype of an individual. Evans teaches determining the genotype of an individual in conjunction with clinical studies. Evans further teaches that determining an individuals genotype is associated with disease risk and drug toxicity, is likely to constitute part of the mechanism for so-called "idiosyncratic drug reactions, drug –metabolism genotypes may result in a phenotype in the absence of drug, and that common polymorphisms in drug targets dictate that DNA sequence variations be taken into account in the genomic screening processes aimed at new drug development to provide new insights for the development of medications that target critical pathways in disease pathogenesis and medications that can be used to prevent diseases in individuals who are genetically predisposed to them. (Pp. 1-4 of 8 and Fig. 3) Evans thus teaches that automated systems are being developed to determine an individual's genotype

Art Unit: 3627

for polymorphic genes that are known to be involved in the pathogenesis of their, disease, in the metabolism and disposition of medications, and in the targets of drug therapy, which need be performed only once for each battery of genes tested and can then become the blueprint for individualizing drug therapy. (Pg. 6 of 8 and Fig. 3) Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have included determining an individuals genotype as taught by Evans into the system and method of Oku for the specific reasons set forth in Evans.

Conclusion

In accordance with the USPTO's goals of customer service, compact prosecution, and reduction of cycle time, and because "the continual, chief complaint of inventors and their lawyers: that patent examiners are abysmal communicators, both orally and in writing," the Examiner has made every effort to clarify his position regarding claim interpretation and any rejections or objections in this application. Furthermore, the Examiner has provided Applicant(s) with notice—for due process purposes—of his position regarding his factual determinations and legal conclusions. If Applicant(s) disagree with *any* factual determination or legal conclusion made by the Examiner in this Office Action whether expressly stated or implied, the Examiner respectfully requests Applicant(s) *in their next response* to expressly traverse the Examiner's position and provide appropriate arguments in support thereof. Failure by Applicant(s) *in their next response* to traverse the Examiner's positions and provide appropriate arguments in support thereof.

¹ Sabra Chartrand, A Bid to Overcome Patent Backlogs, 152 N.Y. Times C2 (Sept. 23, 2002).

² E.g., if the Examiner rejected a claim under §103 with two references, although not directly stated, it is the Examiner's implied position that the references are analogous art.

Application/Control Number: 09/736,619 Page 6

Art Unit: 3627

the factual determinations and legal conclusion not expressly traversed.³ By addressing these issues now, matters where the Examiner and Applicant(s) agree can be eliminated allowing the Examiner and Applicant(s) to focus on areas of disagreement (if any) with the goal towards allowance in the shortest possible time.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer I. Harle whose telephone number is (703) 306-2906. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert P. Olszewski can be reached on (703) 308-5183. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7687 for regular communications and (703) 305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

Jennifer Ione Harle June 16, 2003

³ See also MPEP §714.02, 37 CFR §1.111(b), and 37 CFR §1.104(c)(3).